

MR Form 3
(Revised 1984)

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DIVISION OF
OIL, GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year 1-85
to Month/Year 1-86

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR: Lone Star Industries MINE NAME: Little Mountain

ADDRESS: 615 W 800 S
Salt Lake City, UT 84104

PERMIT NUMBER AND DATE OF PERMIT: _____

REPRESENTATIVE: J. Lake

SECTION(S): E 1/2 20 TOWNSHIP(S): 2S RANGE(S): 6 W

MINERAL(S) MINED: Limestone & Shale

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: _____

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: _____

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

<u>Disturbance</u>	<u>Acreage</u>
Pit	6.46
Roads	1.55
Facilities Stockpile area	5.85
Waste Dumps	None
Other	None

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983-85	13.86

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	<u>Area</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>etc.</u>
Acreage of Area	5.85			
Depth of Topsoil Removal (inches)	None			
Depth of Topsoil Replacement (inches)*	None			
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	None			
Volume Actually Salvaged (yd ³ or ac ft)	None			
Volume Required for Reclamation (yd ³ or ac ft)	None			
Surplus or Deficit Volume (yd ³ or ac ft)	None			
Storage Status (short- or long-term)	None			

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location	See Map			
Area Where Soil Has Been Used (if not stored)	None			
Running Total (all stockpiles) (yd ³ or ac ft)	None			
Short-term				
Long-term	14,800 yds ³ *			
* Overburden will be used in some areas for reclamation				

*Of previously stripped area recently reclaimed.

(a) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
NONE		

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)		
(Milled)	Limestone	324,400 Tons

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.
None

2. Roads.
Access roads to top of pit.

3. Diversion ditches, collector ditches, interceptor ditches, etc.
Installed collector drainage along west side of stockpile area

4. Culverts.
None

5. Sediment ponds, containment ponds.
Installed containment pond on N.W. corner of mine site. See map.

6. Monitoring sites (vegetative, air quality, surface subsidence,
surface water or ground water, etc.).
None

7. Topsoil stockpiles.
None

(g) Description of any environmental problem areas with a proposed plan
for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.
High wall will have periodic seismic test if required to
prove stability.

2. Subsidence.
None

3. Accidental water discharge, dam failure, etc.

*Drainage & containment pond are large enough to handle large
volumes of water

4. Slumping, sliding or erosion.

Pit area only, minimal because of coarse material remaining.

5. Revegetation problem areas.

High Walls, pit area.

6. Existence and location of unsuitable (toxic) overburden.

None

RECLAMATION:

* (a) Tabulation of the acreage reclaimed during the report period with
illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

None

2. Topsoiled areas.

Area

Acreage

None

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
None	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
None	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983	
1984	None

* (c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

None

2. Type of seed (species) used for seeding during the report period.

None

* Note. Final reclamation schedule, at mine closure.

3. Date of seeding during the report period.

Spring

Fall

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

6. Type and rate of fertilizer applied.

7. Type and rate of mulch applied.

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

None

10. Soil analysis results.

See Permit

(d) Description of results of previous revegetation efforts, including:
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

2. Types (species) of seed that are not growing successfully.

3. Areas experiencing problems with weeds and weed types.

4. Significant erosional problems.

5. Areas of unsuitable overburden on the surface as related to
revegetation failure.

6. Procedures used or proposed to correct these problems.

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>

8. Results of soil analysis.

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

<u>NONE</u>	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading		
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond			

Increased disturbance, if any: None

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 1. Landfill sites.
 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.